

ABSTRACT OF THE DISCLOSURE

- 5        The controlling circuit element of a voltage controlled oscillator (VCO) for use in a phase lock loop (PLL) is a varactor connected between the terminals used to convey the power supply voltage and the frequency control voltage. The loop filter, implemented in a shunt configuration at the input of the VCO, is also connected between the power supply and frequency control voltage terminals. As a result, any variations in the power supply voltage
- 10      appear at both terminals of the varactor due to the voltage coupling effect of the loop filter between the shared power supply and frequency control voltage terminals.